

including January 13, 2003 (because January 12, 2003 fell on a Sunday), and a courtesy copy of the claims as pending upon entry of this amendment.

Should the U.S. Patent and Trademark Office determine that any additional fee(s) is due or that any refund is owed for this application, the Commissioner is hereby authorized and requested to charge the required fee(s) and/or credit the refund(s) owed to our Deposit Account No. 04-0100.

Please amend the above-identified application as follows:

**IN THE CLAIMS:**

Please add the following new claims:

44. (New) A vaccine which comprises per dose an effective immunizing amount of an antigenic subunit derived from a first Borrelia burgdorferi isolate, an effective immunizing amount of an antigenic subunit derived from a second, non crossprotective Borrelia burgdorferi isolate, an adjuvant in an amount effective to enhance the immunogenicity of the antigenic subunits and a suitable carrier.

a 45. (New) The vaccine of claim 44, wherein the effective immunizing amount of the antigenic subunits derived from each of the non crossprotective Borrelia burgdorferi isolates is an amount from about ten micrograms to about 10,000 micrograms.

46. (New) The vaccine of claim 44, further comprising an effective immunizing amount of an antigenic subunit of a third Borrelia burgdorferi isolate.